# *EDU6150 - Using Artificial Intelligence in the Classroom*
## Part A: Analysis

### Context Analysis
This course is designed for those currently in teaching or adult learning positions. It is to be offered through the Continuing Education office at UNC Charlotte, and it will be an entirely asynchronous Canvas course that lasts for 7 weeks. The coursework will consist mostly of independent work but will utilize discussion boards as a way for learners to interact with one another and gain insight from individuals in different professional settings. The course will have a specific enrollment period for the Fall semester and the Spring semester to ensure that several students are in the class at a time, allowing for greater discussions on the discussion boards. There are no prerequisites for this course as it is a standalone course; however, learners should have some experience with professional writing, including knowing how to correctly annotate and cite sources as well as knowing correct grammar and punctuation.

The course will provide learners with content covering K-12 education, higher education, and the corporate/medical sector, and it will provide context for what artificial intelligence is and the various types available, including tools that are currently trending. It will give examples of how it can be used in the different learning environments, and it will cover the implications of using AI in those learning environments. The 7 week long course will provide students with videos, articles, and book chapters so students will not need to purchase any items for the course. Learners will have the opportunity to choose between working independently and working together on the final project. Discussion board postings will be due weekly, with at least one response, then learners will have two weeks at the end of the course to complete a final project. Once learners complete the course, they should then be able to apply what they have learned in their professional settings and be prepared to potentially use artificial intelligence in their workplace, should they choose.

### Learner Analysis
This course is designed for those in teaching and adult learning positions, who are currently in their careers and have an interest in using artificial intelligence in their lessons or learning content. If they do not have interest in using artificial intelligence then they have interest in growing their skillset as artificial intelligence trends in their field. Those who join this course, ideally, are able to learn independently due to it being an asynchronous course.

Learners will have the chance to read and plan ahead as all modules will be open from the beginning, allowing them to have flexibility with their learning. The course welcomes learners of all ages, but mostly those who are 21 or older and who already have a bachelor's degree since they are well into their careers. The learners will likely be doing this course after they have finished work, so support from family and friends may be needed for encouraging them. This is another reason why all modules will be open from the beginning in order to allow them to plan ahead or around personal and work events. It will also be recommended that learners have a dedicated work space from home in order to have a better work-life balance.

**Technology Analysis**

In order for learners to participate in the course, they should be able to work at their own pace and should have a laptop in order to access the course materials. Learners must have skills and knowledge of platforms like Microsoft Office, Canva, Google Slides, and more because they are resources that may be used for the final project. Headphones may be necessary in order for learners to listen to videos, and a microphone may be needed to record audio for project presentations, though they are not required. Wifi or a hot spot will be needed in order to access learning materials, so it is suggested that students have a strong connection for either.

Students are not required to have access to a printer since all course materials are online and all assignments are submitted through Canvas. There are no requirements for subscriptions to software. Moreover, all readings will either be accessible through the J. Murrey Atkins Library portal, or they will be available for download through the Canvas course.

**Course Goals**

The goal of the course is for learners to be able to incorporate artificial intelligence into their lessons should they choose to do so. The course will expand their existing knowledge about artificial intelligence in order to make educated decisions about its use in a variety of settings: K-12, higher education, corporate sector, etc.

By the end of the course, through articles, book chapters, podcasts, and videos…

1. Learners will be able to examine basic elements of artificial intelligence.
2. Learners will be able to differentiate between artificial intelligence platforms and determine which platform is most applicable to their professional life.
3. Learners will be able to create a presentation describing how they could use their chosen artificial intelligence platform.
4. Learners will be able to discuss future applications and directions of artificial intelligence within their field.

**Learning Outcomes**

Module 1: *What is Artificial Intelligence?*
Learners will be able to…

- Identify the elements of artificial intelligence in order to describe and define artificial intelligence. (CG1)
- Determine the benefits and limitations of artificial intelligence use within their professional setting. (CG2, CG4)

Module 2: *Artificial Intelligence Tools*
Learners will be able to…

- Compare and contrast artificial intelligence tools based on their critical elements. (CG1, CG2)
- Use an artificial intelligence tool of their choice for a future course project. (CG2, CG3)

Module 3: *Artificial Intelligence in K-12 setting*
Learners will be able to…

- Describe how artificial intelligence is used in K-12 settings. (CG1)
- Analyze the use of artificial intelligence in K-12 settings and evaluate the ethical implications of its use in school settings. (CG1)

Module 4: *Artificial Intelligence in Higher Education*
Learners will be able to…

- Describe how artificial intelligence is used in higher education settings. (CG1)
- Analyze the use of artificial intelligence in higher education settings and evaluate the ethical implications of its use in institutional settings. (CG1)
- Compare and contrast the use of artificial intelligence in K-12 and higher education settings. (CG1, CG2, CG4)

Module 5: *Artificial Intelligence in Corporate and Medical Sector*
Learners will be able to…

- Describe how artificial intelligence is used in corporate and medical settings. (CG1)
- Analyze the use of artificial intelligence in the corporate and medical settings and evaluate the ethical implications of its use in those spaces. (CG1)
- Compare and contrast the use of artificial intelligence in the corporate/medical sector to that of educational settings. (CG1, CG2, CG4)